

What is claimed is:

1           1. A light tube for illumination by a power  
2 supply circuit comprising:  
3           a bulb portion,  
4           a pair of end caps disposed at opposite ends of  
5 the bulb portion, and  
6           a plurality of light emitting diodes disposed  
7 inside the bulb portion and in electrical communication  
8 with the pair of end caps for illuminating in response to  
9 electrical current to be received from the power supply  
10 circuit.

1           2. The light tube of claim 1 wherein the pair  
2 of end caps are shaped to be coupled with a fluorescent  
3 light tube socket.

1           3. The light tube of claim 2 wherein the pair  
2 of end caps are electrical bi-pin connectors.

1           4. The light tube of claim 1 wherein the bulb  
2 portion and the pair of end caps are dimensioned to be  
3 mounted in a fluorescent light tube socket.

1           5. In a replacement light tube for a  
2 fluorescent light fixture having a light tube socket and  
3 a power supply circuit, the improvement comprising:  
4 a plurality of light emitting diodes disposed inside a  
5 bulb portion and in electrical communication with a pair  
6 of end caps for illuminating in response to electrical  
7 current to be received from the fluorescent light  
8 fixture.

1           6. The improvement of claim 5 wherein the  
2 plurality of light emitting diodes are mounted to a  
3 circuit board.

1           7.    The improvement of claim 5 wherein the  
2    plurality of light emitting diodes are mounted at a  
3    angular off-set to establish a predetermined radiation  
4    pattern of light.